

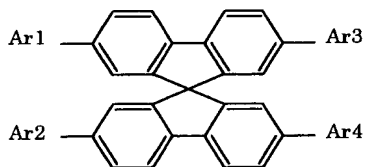
WHAT IS CLAIMED IS:

1. An organic electroluminescent device comprising at least a hole transportation layer and a luminescent layer held between an anode and a cathode in a state of lamination in that order from the anode side, wherein:

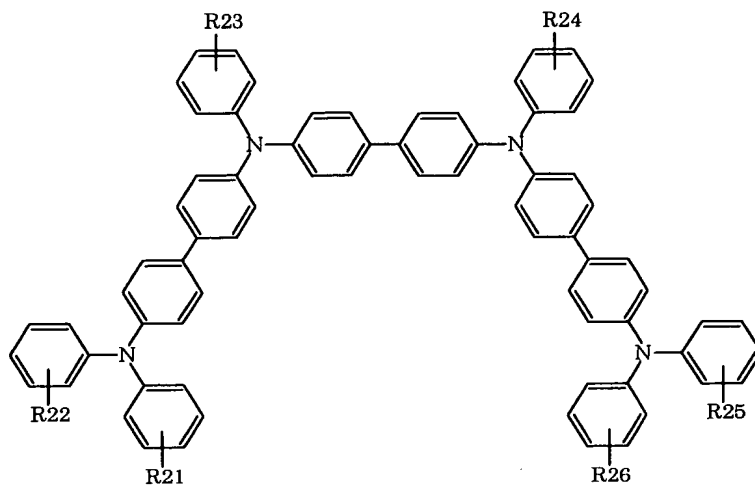
the luminescent layer comprises a spiro compound represented by the following Structural formula (1) or a derivative thereof; and

the hole transportation layer comprises triphenylamine tetramer represented by the following Structural formula (2) or the following Structural formula (3), or a derivative thereof:

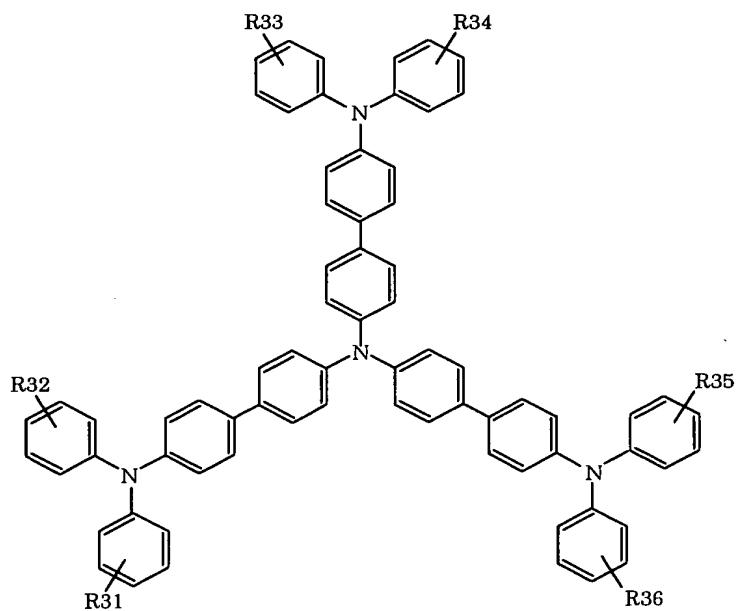
Structural formula (1)



Structural formula (2)



Structural formula (3)

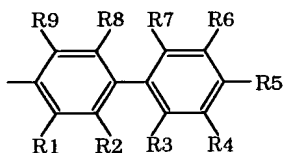


where Ar1 to Ar4 in the Structural formula (1)
independently represent a biphenyl group, substituted

biphenyl group, naphthyl group, substituted naphthyl group, anthryl group, or substituted anthryl group, and R21 to R26 in the Structural formula (2) and R31 to R36 in the Structural formula (3) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

2. The organic electroluminescent device according to Claim 1, wherein at least one of Ar1 to Ar4 in the Structural formula (1) is a biphenyl group or substituted biphenyl group represented by the following Structural formula (4):

Structural formula (4)

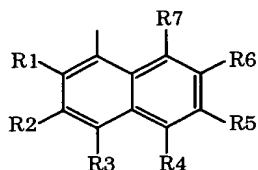


where R1 to R9 in the Structural formula (4) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

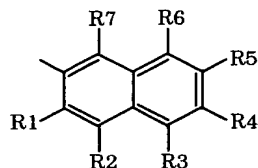
3. The organic electroluminescent device according to

Claim 1, wherein at least one of Ar1 to Ar4 in the Structural formula (1) is a naphthyl group or substituted naphthyl group represented by the following Structural formula (5) or Structural formula (6):

Structural formula (5)



Structural formula (6)

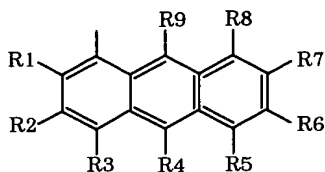


where R1 to R7 in the Structural formula (5) and Structural formula (6) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

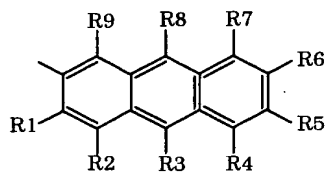
4. The organic electroluminescent device according to Claim 1, wherein at least one of Ar1 to Ar4 in the Structural formula (1) is an anthryl group or substituted anthryl group represented by the following Structural formula (7), Structural formula (8), or Structural formula

(9):

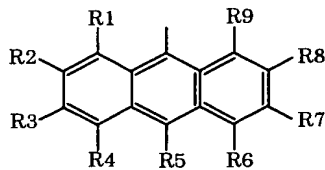
Structural formula (7)



Structural formula (8)



Structural formula (9)



where R1 to R9 in the Structural formula (7),
Structural formula (8), and Structural formula (9)
independently represent hydrogen, alkyl group having the
number of carbon atoms of 1 to 12, cycloalkyl group, aryl
group having the number of carbon atoms of 5 to 28, or
substituted aryl group.

5. The organic electroluminescent device according to
Claim 1, wherein an electron transportation layer is

provided between the cathode and the luminescent layer.

6. The organic electroluminescent device according to Claim 1, wherein at least one of the anode and cathode comprises a transmission material.

7. The organic electroluminescent device according to Claim 1, wherein the cathode comprises a transmission material.

8. The organic electroluminescent device according to Claim 7, wherein the cathode comprises an alloy of magnesium and silver.

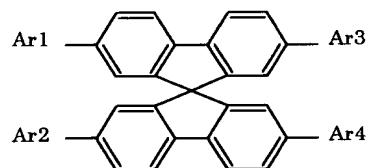
9. A display unit comprising a plurality of pixels formed by arraying organic electroluminescent devices comprising at least a hole transportation layer and a luminescent layer held between an anode and a cathode in a state of lamination in that order from the anode side, wherein:

the luminescent layer comprises a spiro compound represented by the following Structural formula (1) or a derivative thereof; and

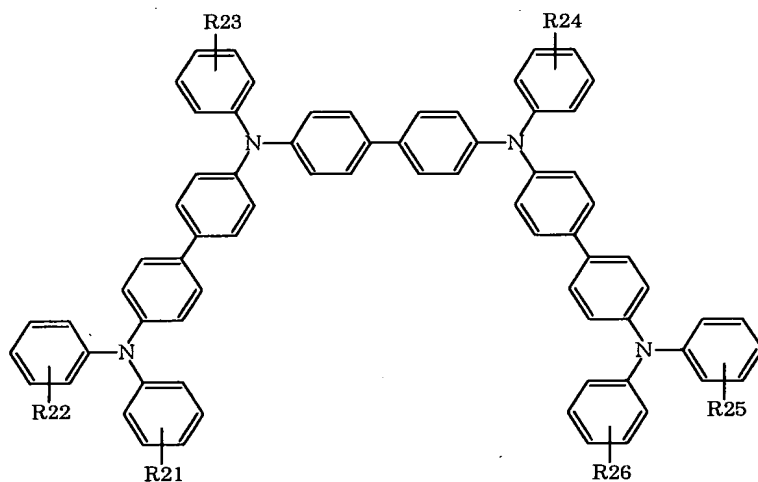
the hole transportation layer comprises triphenylamine tetramer represented by the following Structural formula (2)

or the following Structural formula (3), or a derivative thereof:

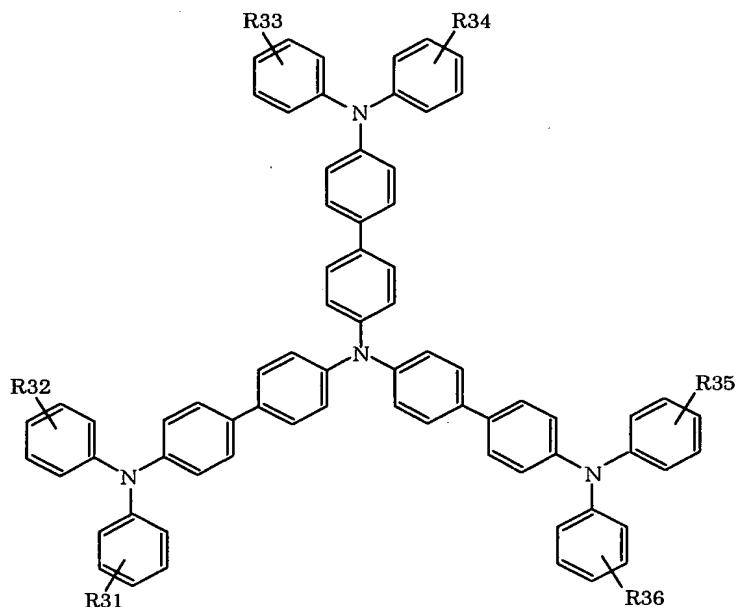
Structural formula (1)



Structural formula (2)



Structural formula (3)

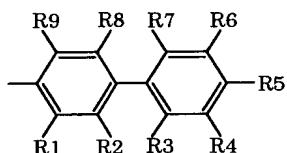


where Ar1 to Ar4 in the Structural formula (1) independently represent a biphenyl group, substituted biphenyl group, naphthyl group, substituted naphthyl group, anthryl group, or substituted anthryl group, and R21 to R26 in the Structural formula (2) and R31 to R36 in the Structural formula (3) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

10. The display unit according to Claim 9, wherein at least one of Ar1 to Ar4 in the Structural formula (1) is a

biphenyl group or substituted biphenyl group represented by the following Structural formula (4):

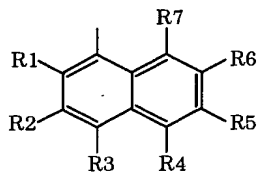
Structural formula (4)



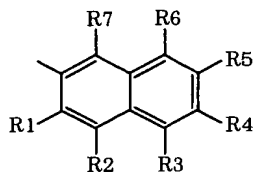
where R1 to R9 in the Structural formula (4) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

11. The display unit according to Claim 9, wherein at least one of Ar1 to Ar4 in the Structural formula (1) is a naphthyl group or substituted naphthyl group represented by the following Structural formula (5) or Structural formula (6):

Structural formula (5)



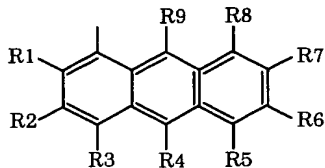
Structural formula (6)



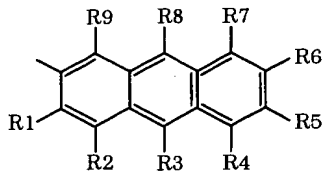
where R1 to R7 in the Structural formula (5) and Structural formula (6) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

12. The display unit according to Claim 9, wherein at least one of Ar1 to Ar4 in the Structural formula (1) is an anthryl group or substituted anthryl group represented by the following Structural formula (7), Structural formula (8), or Structural formula (9):

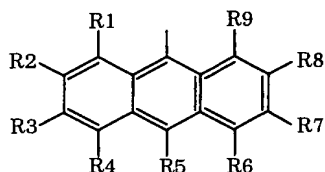
Structural formula (7)



Structural formula (8)



Structural formula (9)



where R1 to R9 in the Structural formula (7), Structural formula (8), and Structural formula (9) independently represent hydrogen, alkyl group having the number of carbon atoms of 1 to 12, cycloalkyl group, aryl group having the number of carbon atoms of 5 to 28, or substituted aryl group.

13. The display unit according to Claim 9, wherein the organic electroluminescent devices are provided at a part of the plurality of pixels as blue-emitting elements.

14. The display unit according to Claim 9, wherein an electron transportation layer is provided between the cathode and the luminescent layer.

15. The display unit according to Claim 9, wherein at least one of the anode and cathode comprises a transmission material.

16. The display unit according to Claim 9, wherein the cathode comprises a transmission material.

17. The display unit according to Claim 16, wherein the cathode comprises an alloy of magnesium and silver.

10068353 : 020602